



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

10/002,706	10/30/2001	Mark D. Seaman	10008306-1	2769
------------	------------	----------------	------------	------

7590 08/07/2006

HEWLETT-PACKARD COMPANY
Intellectual Property Administration
P.O. Box 272400
Fort Collins, CO 80527-2400

EXAMINER

ROSARIO, DENNIS

ART UNIT	PAPER NUMBER
----------	--------------

2624

DATE MAILED: 08/07/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/002,706

Applicant(s)

SEAMAN ET AL.

Examiner

Dennis Rosario

Art Unit

2624

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on AF 7/19/2006.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 4,5,7-18 and 27 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 4,5,7-18 and 27 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 30 October 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Response to Amendment

1. The after final amendment was received on July 19, 2006. Claims 4, 5, 7-18 and 27 are pending.

Applicant's request for reconsideration of the finality of the rejection of the last Office action is persuasive and, therefore, the finality of that action is withdrawn.

Response to Arguments

2. Applicant's arguments with respect to claims 4, 7, 13 and 16 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 4 and 5 are rejected under 35 U.S.C. 102(b) as being anticipated by Wang et al. (US Patent 6,035,055 A).

Regarding claim 4, Wang et al. discloses an image file embodied in a computer-readable medium, comprising:

- a) digital image data (fig. 3, num. 130, 131, 132, 103) that represents an image;
- and

b) image meta-data (fig. 2, num. 71a) associated with the digital image data created by applying a predefined image analysis algorithm (fig. 3,num. 102) to the digital image data to identify a recognized location (fig. 5,num. 302) within the image.

Regarding claim 5, Wang et al. discloses the image file of claim 4, wherein the image meta-data comprises at least one searchable keyword ("text description" in col. 7, line 52).

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 4,7-15 and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fuller et al. (US Patent 6,877,134 B1) in view of Wang et al. (US Patent 6,035,055 A).

Regarding claim 7, Fuller et al. teaches an image capture device, comprising:

- a) image capture hardware configured to capture an image ("camera" in col., line 6., line 46.); and
- b) logic configured for:

b1) generating a digital representation of the image (fig. 19,num. 1203 outputs or generates the image.), the digital representation comprising image data;

b2) applying at least one predefined image analysis algorithm ("video engine" in col. 4, line 17 performs a "visual analysis" in col. 4, line 15) to the digital representation of the image to identify a recognized location within the image,

b21) the at least one predefined image analysis algorithm generating image meta-data ("generates metadata" in col. 4, lines 18,19) corresponding to the recognized location; and

b3) combining (Fig. 19,num. 1700) the image meta-data corresponding to the recognized location with the image data (via num. 1207) to define new image data (Fig. 19,num. 1700 is a new image data or "Combined" in fig. 19,num. 1700 image data.).

Fuller et al. does not teach the claimed recognized location, but teaches that metadata can be "generated" in col. 3, line 62 from "Face identification/recognition" in col. 4, line 4. Thus, Fuller et al. suggest to one of ordinary skill in the art to use face identification because Fuller et al. does not provide a detailed teaching of face identification in order to generate metadata.

Wang et al. teaches face identification as shown in fig. 4,num. 201 as suggested by Fuller et al. and the claimed recognized location in fig. 5,num. 302 in order to generate metadata or "extract content data" in col. 2, lines 24,25.

It would have been obvious at the time the invention was made to one of ordinary skill in the art to modify Fuller et al.'s teaching of face identification with Wang et al.'s teaching of face identification, because Wang et al.'s teaching of face identification "automatically extracts and stores content data of digital images such that effective and efficient search and retrieval of the digital images can be achieved" in col. 2, lines 16-19.

Claim 4 is rejected the same as claim 7. Thus, argument similar to that presented above for claim 7 of a device is equally applicable to claim 4 of a file.

Regarding claim 8, Fuller et al. teaches the image capture device of claim 7, wherein the logic is software ("software" in the abstract) and further comprising a processing device ("mechanisms" in the abstract.) for implementing the logic.

Regarding claim 9, Fuller et al. teaches the image capture device of claim 7, wherein the logic is further configured for storing the new image data (Fig. 19, num. 1700).

Regarding claim 10, Fuller et al. teaches the image capture device of claim 7, further comprising:

a) a network interface device (Fig. 1, num. 150) configured for communication with a communications network (Fig. 1 all numerals except num. 150) and wherein the logic is further configured for:

a1) providing the new image data to the communications network (via servers of fig. 1, num. 130 and 140).

Claim 11 is rejected the same as claim 10. Thus, argument similar to that presented above for claim 10 is equally applicable to claim 11.

Claim 12 is rejected the same as claim 5. Thus, argument similar to that presented above for claim 5 is equally applicable to claim 12.

Claim 13 is rejected the same as claim 7. Thus, argument similar to that presented above for claim 7 is equally applicable to claim 13 except for the limitation of:

a) identifying a digital representation of an image ("Keyframes" in col. 7, line 17 are "extracted" in col. 7, line 17), the digital representation comprising image data.

Claim 14 is rejected the same as claim 5. Thus, argument similar to that presented above for claim 5 is equally applicable to claim 14.

Regarding claim 15, Fuller et al. discloses the method of claim 13, wherein identifying a digital representation of the image involves receiving ("during [a] capture process" in col. 7, line 17) the image data.

Regarding claim 27, Fuller discloses the image capture device of claim 7, wherein the image capture device is a digital camera.

Note that the claimed "digital camera" is not given patentable weight since the claimed "digital camera" is part of the preamble of claim 7 and does not perform an active function or included in a function with respect to the body of claim 7. The body of claim 7 does not need the claimed "digital camera" in order to perform the method of claim 7 or the body of claim 7 is understood without the claimed "digital camera".

7. Claims 16-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fuller et al. (US Patent 6,877,134 B1) in view of Wang et al. (US Patent 6,035,055 A) and further in view of Li et al. (US Patent 5,734,893 A).

Regarding claim 16, the combination of Fuller et al. and Wang et al. teaches the claimed image meta-data having been generated by applying a predefined image analysis algorithm to the digital representation of the image to identify a recognized location within the image as addressed in claim 7, above.

Fuller et al. of the combination does not teach the remaining limitations of claim 16, but does teach that meta-data can be used for a "search" in col. 4, line 20. However, Fuller et al. does not appear to teach a method of searching with meta-data and is focused on a "browse" in col. 4, line 21 operation. Since Fuller et al. does not provide a method of searching, Fuller et al. suggests a method of searching with meta-data.

Li et al. teaches a method of searching with meta-data as shown in fig. 2 and the remaining limitations of claim 16 of:

- a) receiving a search query (Fig. 2,num. 202 receives a search query via fig. 2,num. 201) comprising information related to specific image meta-data;
- b) based on the search query, searching one or more image files (fig. 1,num. 105) for the image meta-data specified in the search query; and
- c) identifying (Fig. 2, num. 204 matches which is a form of identifying.) one or more of the image files that comprise image meta-data that matches the image meta-data specified in the search query.

It would have been obvious at the time the invention was made to one of ordinary skill in the art to modify Fuller et al.'s meta-data with the search method of Li et al., because Li et al.'s search method "assist[s] the user...regarding...the...query (Li et al., col. 3, lines 15-17)."

Claim 17 is rejected the same as claim 16c). Thus, argument similar to that presented above for claim 17 is equally applicable to claim 16c).

Regarding claim 18, Li et al. of the combination teaches the method of claim 16, wherein the image meta-data and the search query comprises at least one searchable keywords ("keywords" in col. 1, line 30).

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Lennon et al. (US Patent 6,922,489 B2) is pertinent as teaching a method of finding regions or locations as shown in fig. 4 and associating metadata or RAG in fig. 1,num. 508 with the locations.

Warnick et al. (US Patent 5,901,245 A) is pertinent as teaching a method of location meta data upon the output of fig. 8,num. S810.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dennis Rosario whose telephone number is (571) 272-7397. The examiner can normally be reached on 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bhavesh Mehta can be reached on (571) 272-7453. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.


Dennis Rosario
Unit 2624


DANIEL MIRIAM
PRIMARY EXAMINER